

PROJECT DESCRIPTION
GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS) AND ADA COMPLIANT SIDEWALK RAMPS FOR THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 150 (EASTERN BLVD) AND SELIG AVENUE IN BALTIMORE COUNTY, MARYLAND. MD 150 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.
INTERSECTION OPERATION
THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME.
TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS
MD 150 (EASTERN BLVD) AND SELIG AVENUE/SHOPPING CENTER ENTRANCE (PUSHBUTTONS #26 AND #29) – SOUTH LEG
INTERSECTION WITH ANGLED CROSSING
WAIT: "WAIT TO CROSS EASTERN AT SELIG AND SHOPPING CENTER. CROSSWALK ANGLES RIGHT, WAIT." **
WALK: RAPID TICK
MD 150 (EASTERN BLVD) AND SELIG AVENUE/SHOPPING CTR. ENT. (PUSHBUTTONS #27 AND #28) – SOUTH LEG MEDIAN
STREETS AT 90 DEGREES
WAIT: "WAIT TO CROSS EASTERN AT SELIG AND SHOPPING CENTER, WAIT." *
WALK: RAPID TICK
SHOPPING CTR. ENT. AND MD 150 (EASTERN BLVD) (PUSHBUTTONS #30 AND #31) – WEST LEG MEDIAN
STREETS AT 90 DEGREES
WAIT: "WAIT TO CROSS SHOPPING CENTER ENTRANCE AT EASTERN, WAIT." *
WALK: RAPID TICK
* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
CONTROLLER REQUIREMENTS
THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE AND APS EQUIPMENT.

PROJECT CONTACTS
THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:
MS. ERIN KUHN ASSISTANT DISTRICT ENGINEER – TRAFFIC PHONE: (410) 229-2381
MR. MIKE PASQUARIELLO DISTRICT UTILITY ENGINEER PHONE: (410) 229-2341
MR. ANDRE FUTRELL ASSISTANT DISTRICT ENGINEER – MAINTENANCE PHONE: (410) 229-2361
MS. CORREN JOHNSON CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

PHASE CHART

PHASE 1 + 5	← G—	R	R	← G—	← G—	← G—	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	↑	↓
1 + 5 CHANGE				PHASE 1 + 5 MAY CHANGE TO	PHASE 1 + 6,	PHASE 2 + 5 OR	PHASE 2 + 6												↑	↓
PHASE 1 + 6	← R—	R	R	← R—	← R—	← R—	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	↑	↓
1 + 6 CHANGE	← R—	R	R	← R—	← R—	← R—	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	↑	↓
PHASE 2 + 5	← G—	G	G	← R—	← R—	← R—	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	↑	↓
2 + 5 CHANGE	← Y—	G	G	← Y—	← Y—	← Y—	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	↑	↓
PHASE 2 + 6	← R—	G	G	← R—	← R—	← R—	G	G	R	R	R	R	DW	DW	DW	DW	WK	WK	↑	↓
PED CLEARANCE	← R—	G	G	← R—	← R—	← R—	G	G	R	R	R	R	DW	DW	DW	DW	FLOW	FLOW	↑	↓
2 + 6 CHANGE	← R—	Y	Y	← R—	← R—	← R—	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	↑	↓
PHASE 3	← R—	R	R	← R—	← R—	← R—	R	R	← G—	G	R	R	DW	DW	DW	DW	DW	DW	↑	↓
3 CHANGE	← R—	R	R	← R—	← R—	← R—	R	R	Y	Y	Y	R	DW	DW	DW	DW	DW	DW	↑	↓
PHASE 4	← R—	R	R	← R—	← R—	← R—	R	R	R	R	← G—	G	DW	DW	DW	DW	WK	WK	↑	↓
4 CHANGE	← R—	R	R	← R—	← R—	← R—	R	R	R	R	Y	Y	DW	DW	DW	DW	FLOW	FLOW	↑	↓
PHASE 4 ALT.	← R—	R	R	← R—	← R—	← R—	R	R	R	R	← G—	G	WK	WK	WK	WK	DW	DW	↑	↓
PED CLEARANCE	← R—	R	R	← R—	← R—	← R—	R	R	R	R	← G—	G	FLOW	FLOW	FLOW	FLOW	DW	DW	↑	↓
4 ALT. CHANGE	← R—	R	R	← R—	← R—	← R—	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW	↑	↓
FLASHING OPERATION	← FL/R	FLY	FLY	← FL/R	← FL/R	← FL/R	FLY	FLY	FLR	FLY	FLR	FLY	DARK	DARK	DARK	DARK	DARK	DARK	↑	↓

EQUIPMENT LIST "A"
A. EQUIPMENT TO BE SUPPLIED BY THE SHA
ITEM NO. QUANTITY DESCRIPTION
9571 6 S.F. SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) :
- 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS EASTERN BLVD"
- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS SHOPPING CTR ENT"

EQUIPMENT LIST "C"
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

MAINTENANCE OF TRAFFIC
THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.
STANDARD NO. MD-104.04-01 (SHOULDER WORK)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

EQUIPMENT LIST "B"
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR
CATEGORY CODE QUANTITY DESCRIPTION
100000 1 EACH MAINTENANCE OF TRAFFIC
201032 1 C.Y. CLASS II EXCAVATION
203030 6 C.Y. TEST PIT EXCAVATION
585621 560 L.F. 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585619 150 L.F. 5 INCH YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625 130 L.F. 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700 900 L.F. REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS – ANY WIDTH
600000 190 L.F. STANDARD TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000 220 L.F. STANDARD TYPE A CURB ANY HEIGHT OR DEPTH
600000 110 S.F. DETECTABLE WARNING SURFACE FOR CURB RAMPS (TYPE 3 BRICK PAVERS)
655105 1325 S.F. 5 IN. CONCRETE SIDEWALK
800000 1 EACH 2-WIRE APS CENTRAL CONTROL UNIT
800000 6 EACH AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000 4 EACH 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000 6 EACH 5 OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION AND GROUND ROD
800000 1 EACH REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
800000 80 L.F. UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
800000 6 S.F. INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000 2 EACH ADJUST HANDHOLE TO GRADE AND REPLACE FRAME AND COVER
800000 4 EACH IP-BASED VIDEO DETECTION CAMERA & ANY LENGTH LEAD-IN CABLE
802501 400 L.F. NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105 960 L.F. ELECTRICAL CABLE – 2 CONDUCTOR (NO. 14 AWG)
861107 630 L.F. ELECTRICAL CABLE – 5 CONDUCTOR (NO. 14 AWG)

